



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>7</sup> :</b> <b>C12N 15/13, 5/10, 15/62, G01N 33/53, A61K 45/00, 9/48</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 00/24897</b> <b>(43) International Publication Date:</b> 4 May 2000 (04.05.00)
<b>(21) International Application Number:</b> PCT/US99/24630 <b>(22) International Filing Date:</b> 21 October 1999 (21.10.99) <b>(30) Priority Data:</b> 09/178,869 26 October 1998 (26.10.98) US <b>(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application</b> US 09/178,869 (CIP) Filed on 26 October 1998 (26.10.98) <b>(71) Applicant (for all designated States except US):</b> CYTOTHERAPEUTICS, INC. [US/US]; 701 George Washington Highway, Lincoln, RI 02865 (US). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> TAO, Weng [US/US]; 6 Rivet Drive, Lincoln, RI 02865 (US). WONG, Shou [US/US]; 2970 Mendon Road, Chestnut Villa 97, Cumberland, RI 02864 (US). HICKEY, William, F. [US/US]; 26 Recordridge Lane, Lyme, NH 03768 (US). HAMMANG, Joseph, P. [US/US]; 3 Prospect Street, Barrington, RI 02806 (US). BAETGE, E., Edward [US/CH]; 82, rue du Centre, CH-1025 St-Sulpice (CH).		<b>(74) Agent:</b> ELRIFI, Ivor, R.; Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P. C., One Financial Center, Boston, MA 02111 (US). <b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> CELL SURFACE MOLECULE-INDUCED MACROPHAGE ACTIVATION		
<p>The diagram illustrates three cross-sections of a cell membrane, labeled A, B, and C. Each cross-section shows a horizontal line representing the plasma membrane, with the area below it labeled 'Cytoplasm'. In section A, two surface molecules (N) are embedded in the membrane, and two cytoplasmic molecules (C) are shown. In section B, two surface molecules (N) are embedded in the membrane, and two cytoplasmic molecules (C) are shown. In section C, two surface molecules (N) are embedded in the membrane, and two cytoplasmic molecules (C) are shown.</p>		
<b>(57) Abstract</b> <p>This invention provides cells containing recombinant polynucleotides coding for cell surface molecules that, when expressed in the cell, result in rejection of the cell by the host immune system. The invention also provides methods of using such cells, and capsules for delivery of biologically active molecules to a patient.</p>		